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Residual Inverse Iteration for the Lasing Eigenvalue Problem

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Abstract

© 2018 IEEE. Effective numerical approach based on a modification of the residual inverse iteration method for solution of the Lasing Eigenvalue Problem is proposed. The numerical study demonstrates that this algorithm allows to compute all the spectral characteristics of dielectric microcavity lasers in a given frequency interval with high accuracy.

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Keywords

lasing eigenvalue problem, microcavity laser, residual inverse iteration method

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